

Powers Elevation
Suite 1201 Cherry Creek Plaza
600 So. Cherry Street
Denver, Colorado 80222

RE: Filing NTL-6 and A.P.D. Form 9-331C
William C. Kirkwood
#22-20 Monroe
1790' FNL & 2962' FEL
Sec. 20 T31S R15E
Garfield County, Utah

Gentlemen:

This is to confirm our understanding with you that Powers Elevation is authorized to act as our agent in the following capacities:

- A. In surveying, staking, and preparing and filing necessary applications, permits and compliance programs, including complete NTL-6 reports, for the above-referenced project.
- B. In accepting on our behalf any changes to location, proposed facilities and/or surface use plan and compliance program requested at on-site inspections, when we are unable to have a Company representative present. Such changes will then be binding upon us or designated Operator.

POWERS' responsibilities do not include construction of location or supervision of drilling, completion or rehabilitation operations.

W C Kirkwood Oil & Gas
Company

by: Steve C. Kirkwood

Title: Geologist

Date: 5/2/80



POWERS ELEVATION

May 29, 1980

**OIL WELL ELEVATIONS AND LOCATIONS
CHERRY CREEK PLAZA, SUITE 1201
808 SOUTH CHERRY STREET
DENVER, COLORADO 80222
PHONE NO. 309/321-2217**

U. S. Geological Survey
E. W. Guynn, District Engineer
1745 West 1700 South
2000 Administration Building
Salt Lake City, Utah 84138

Re: Filing NTL-6 and A.P.D. Form 9-331C
William C. Kirkwood
#22-20 Monroe
1790' FNL & 2962' FEL
Sec. 20 T31S R15E
Garfield County, Utah

Dear Mr. Guynn:

Enclosed are three copies of the NTL-6 program and A.P.D. Form 9-331C for the above-referenced well location.

Please notify us when you have arranged a time with the B.L.M. to inspect the site, in order that Larry Becker, our surveyor who did the ground work for this application may be present during the inspection.

The archaeological report is not included with the NTL-6 but will be forwarded to your office, and to the B.L.M. office, from our Archaeological Division.

Sincerely yours,

POWERS ELEVATION

Connie L. Frailey

Connie L. Frailey

CLF:mc
Enclosure

cc: William Vandeventer, William C. Kirkwood, Casper, Wyoming
Larry Becker, Powers Elevation, Grand Junction, Colorado
Dirt Contractor



United States Department of the Interior

IN REPLY REF

3100(U-50)

BUREAU OF LAND MANAGEMENT

Henry Mountain Resource Area
P.O. Box 99
Hanksville, UT. 84734

June 30, 1980

George Diwachak
USGS Conservation Division
2000 Administration Building
1745 W. 1700 S.
Salt Lake City, UT. 84104

Re: Kirkwood Oil
Proposed Drilling Project - *8 wells*
T. 31 S., R. 14 E. and T. 31 S., R. 15 E.

Dear Mr. Diwachak:

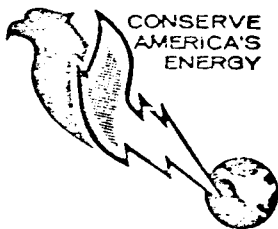
The following information concerns surface protection stipulations to be incorporated into the APD's for the above referenced drilling project.

Site specific stipulations for each of the eight locations include the following:

<u>WELL NAME</u>	<u>LOCATION</u>	<u>LEASE NUMBER</u>
1- Magnum 23-8	NE $\frac{1}{4}$ SW $\frac{1}{4}$ 8 T. 31 S., R. 15 E.	U-21478

- a - The site will be moved roughly 400 ft. to the east to a point where it's coordinates in section 8 are 1900' FEL and 1790' FSL.
- b - The drill site will not be bladed.
- c - A small reserve pit will be constructed to hold cuttings.
- d - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

<u>SPECIES</u>	<u>LBS/ACRE</u>
Shadscale	3
Indian ricegrass	3
Galleta grass	2



Save Energy and You Serve America!

SEE PAGE 4 for STIPS, Page 5 for clearances

- e - All trash and debris will be carried off site and disposed of in a BLM approved location.
- f - Access to the site will be on an existing road. Blading will be kept to a minimum, old rocks and debris will be removed and no new cuts will be authorized.

2 - White Rim 44-4 SE $\frac{1}{4}$ SE $\frac{1}{4}$ SE $\frac{1}{4}$ 4, T. 31 S., R. 15 E. U-21083

- a - The site will be moved from the SESESE, to the NESESE of section 4.
- b - The drill site will not be bladed.
- c - A small reserve pit will be cut to hold cuttings.
- d - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

SPECIES

LB/ACRE

Shadscale	3
Indian ricegrass	3
Galleta grass	2

- e - All trash and debris will be carried off site and disposed of in a BLM approved location.
- f - Access to the site will be on an existing road. Blading will be kept to a minimum.

3 - Garfield 44-15 SE $\frac{1}{4}$ SE $\frac{1}{4}$ 15, T. 31 S., R. 15 E. U-21037

- a - The drill site will not be bladed.
- b - A small reserve pit will be constructed to hold cuttings.
- c - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

SPECIES

LB/ACRE

Shadscale	3
Indian ricegrass	3
Galleta grass	2

- d - All trash and debris will be carried off-site and disposed of in a BLM approved site.
- e - Access to the site will be confined to the existing road. Blading will be kept to a minimum by simply removing any rocks and debris

blocking the road and by filling in any washed out areas.

4 - Winfield 21-15 NE $\frac{1}{4}$ NW $\frac{1}{4}$ 15, T. 31 S., R. 15 E. U-21037

- a - The drill site will not be bladed.
- b - A small reserve pit will be constructed to hold cuttings.
- c - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

SPECIES

LB/ACRE

Shadscale	3
Indian ricegrass	3
Galleta grass	2

- d - All trash and debris will be carried off-site and disposed of in a BLM approved site.
- e - Access to the site will be confined to the existing road. Blading will be kept to a minimum by removing only those rocks and debris blocking the road and by filling in any washed out areas.

5 - Remington 14-15 SW $\frac{1}{4}$ SW $\frac{1}{4}$ 15, T. 31 S., R. 15 E. U-21037

- a - The drill site will not be bladed.
- b - The two rock cairns on the access road will be left intact.
- c - A small reserve pit will be constructed to hold cuttings.
- d - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

SPECIES

LB/ACRE

Shadscale	3
Indian ricegrass	3
Galleta grass	2

- e - All trash and debris will be carried off-site and disposed of in a BLM approved site.
- f - Access to the site will be confined to the existing road. Blading will be kept to a minimum by removing only those rocks and debris blocking the road and by filling in any washed out areas.

6 - Monroe 22-20 SE $\frac{1}{4}$ NW $\frac{1}{4}$ 20, T. 31 S., R. 15 E. U-21477

- a - The drill site will be moved 75 feet to the west in order to drill on a level spot on the old existing road.
- b - The drill site will not be bladed.
- c - A small reserve pit will be constructed to hold cuttings.
- d - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

SPECIES

LB/ACRES

Shadscale	3
Indian ricegrass	3
Galleta grass	2

- e - All trash and debris will be carried off-site and disposed of in a BLM approved site.
- f - Access to the site will be confined to the existing road. Blading will be kept to a minimum by removing only those rocks and debris blocking the road and by filling in any washed out areas.

7 - Eastex 41-20 NE $\frac{1}{4}$ NE $\frac{1}{4}$ 20, T. 31 S., R. 15 E. U-21477

- a - The drill site will not be bladed and will be located directly adjacent to main access road in North Hatch Canyon.
- b - A small reserve pit will be constructed to hold cuttings.
- c - Upon completion of the well the pit will be covered, the site will be disked, and the following seed mixture will be hand broadcasted over the site.

SPECIES

LB/ACRE

Shadscale	3
Indian ricegrass	3
Galleta grass	2

- d - All trash and debris will be carried off-site and disposed of in a BLM approved site.

8 - Cromwell 33-29 SW $\frac{1}{4}$ SE $\frac{1}{4}$ 29, T. 31 S., R. 15 E. U-21476

- a - The drill site will not be bladed.
- b - A small reserve pit will be constructed to hold cuttings.

- c - Access to the site will involve blading roughly 3/4 mile of new road from the existing road in South Hatch Canyon. This road will be constructed with a minimum amount of blading and will be reclaimed from the site all the way back to the South Hatch Canyon road. All cuts will be recontoured, the road disked and revegetated by hand broadcasting the following species.

SPECIES

LB/ACRE

Shadscale

3

Indian ricegrass

3

Galleta grass

2

- d - Upon completion of the well the pit will be covered, the site will be disked and the above listed species will be hand broadcasted over the site.
- e - All trash and debris will be carried off and disposed of in a BLM approved site.

In addition to the above mentioned site specific stipulations the entire project should be covered by two more protective measures.

- 1) No unnecessary off-road driving will be authorized. Four-wheel drives will be restricted to existing roads.
- 2) No uranium claim markers, or cairns, will be destroyed or damaged.

The majority of the project takes place in BLM Wilderness Inventory Unit # 241, Fiddler Butte. The areas wilderness characteristics are not exceptional and as a result the BLM's inventory has recommended that the unit be dropped from any further wilderness study. However, under BLM's Interim Management Policy of Lands Under Wilderness Review (IMP), we are mandated to protect the area from any further undue or unnecessary degradation until October 1, 1980, at which time the area will officially fall out of further wilderness consideration. This time frame allows the public to comment on our decision. If there are any comments or protests to put this area back into wilderness study status, then the Bureau will have to assess the comments and decide if they are worthy of consideration. Therefore, the area could go back into wilderness study status in October and as a result we must protect the area.

The BLM's IMP Guidelines mandate that these wilderness guidelines be addressed in an Environmental Assessment (EA).

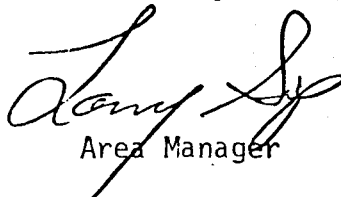
Therefore, since the GS is preparing the EA for this project, we would request that this information be included in the document. You can also include the statement that the Bureau has determined that impacts from this project will not impair the wilderness characteristics of the area and that if the mitigating measures are followed, the impacts can be returned to a substantially unnoticeable condition.

The BLM has also conducted surveys for Threatened and Endangered Plants and Animals in the project area and as a result of these surveys T & E clearances

are granted as no T & E plants or animals were found. The BLM can also grant Archaeological clearance at this time based on an archaeological survey conducted of the area by Powers Elevation Company.

If you have any questions concerning the foregoing discussion, or if you need any additional information, please feel free to contact our office.

Sincerely,



Area Manager

CC; Chuck Horsburgh
Richfield BLM

W.J. Averett, Consulting Petroleum Engineer
1682 Woodland Dr.
Provo, Utah 84601

FROM : DISTRICT GEOLOGIST, ME, SALT LAKE CITY, UTAH
TO : DISTRICT ENGINEER, O&G, SALT LAKE CITY, UTAH
SUBJECT: APD MINERAL EVALUATION REPORT

LEASE NO. U-21477OPERATOR: William C. KirkwoodWELL NO. 22-20

LOCATION: NE 1/4 SE 1/4 NW 1/4 sec. , T. 31S, R. 15E, SLM
Garfield County, Utah

1. Stratigraphy: Operator tops appear reasonable

Moenkopi	surface
White Rim	370'
Organ Rock	650'
<u>TD</u>	<u>670'</u>

2. Fresh Water:

None probable

3. Leasable Minerals:

4. Additional Logs Needed: Adequate

5. Potential Geologic Hazards: None anticipated

6. References and Remarks:

Heavy oil. - might require Tertiary extraction methods

Signature: Gregory W. WoodDate: 6 - 24 - 80

Memorandum

To: District Oil and Gas Engineer, Mr. Edward Gwynn

From: Mining, Supervisor, Mr. Jackson W. Moffitt

Subject: Application for Permit to Drill (form 9-331c) Federal oil and gas lease No. 11-21477 Well No. 22-20

1. The location appears potentially valuable for:

- ☐ strip mining*
- ☐ underground mining**
- ☒ has no known potential.

2. The proposed area is

- ☐ under a Federal lease for _____ under the jurisdiction of this office.
- ☒ not under a Federal lease under the jurisdiction of this office.
- ☐ Please request the operator to furnish resistivity, density, Gamma-Ray, or other appropriate electric logs covering all formations containing potentially valuable minerals subject to the Mineral Leasing Act of 1920.

*If location has strip mining potential:

Surface casing should be set to at least 50 feet below the lowest strip minable zone at _____ and cemented to surface. Upon abandonment, a 300-foot cement plug should be set immediately below the base of the minable zone.

**If location has underground mining potential:

The minable zones should be isolated with cement from a point 100 feet below the formation to 100 feet above the formation. Water-bearing horizons should be cemented in like manner. Except for salines or water-bearing horizons with potential for mixing aquifers, a depth of 4,000 feet has been deemed the lowest limit for cementing.

Signed

Allen J. Vance

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐PLUG BACK ☐

b. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

William C. Kirkwood

3. ADDRESS OF OPERATOR

P. O. Drawer 3439, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

1790 FNL & 2962 FEL (SE NW)

At proposed prod. zone

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 45 miles east of Hanksville, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drilg. unit line, if any)

1790

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

2640' +

16. NO. OF ACRES IN LEASE

2510

19. PROPOSED DEPTH

670' organ
Rock17. NO. OF ACRES ASSIGNED
TO THIS WELL.

40

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4988' GR

22. APPROX. DATE WORK WILL START*

June 15, 1980

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 1/2"	6 5/8" New	24# K-55 8 Rd.	20'	10 sxs cement Class "G" 2% Ca
5 5/8"	4 1/2" New	9.5# K-55 8 Rd.	670'	50 sxs cement Class "G" 2% Ca

1. Drill 8 1/2" hole and set 6 5/8" surface casing to 20" with good returns.
2. Log B.O.P. checks in daily drill reports and drill 5 5/8" hole to 670'.
3. Run tests if warranted and run 4 1/2" casing if productive.
4. Run logs, as needed, and perforate and stimulate as needed.

EXHIBITS ATTACHED:

- "A" Location and Elevation Plat
- "B" The Ten-Point Compliance Program
- "D" The Multi-Point Requirements for A.P.D.
- "E" Accres Road Maps to Location
- "F" Radius Map of Field

RECEIVED
JUL 08 1980APPROVED BY THE DIVISION
OF OIL, GAS, AND MINING
DATE: 7-9-80
BY: W.S. Munder

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Wm. Vandewater

TITLE

Pet. Eng.

DATE

7-14-80

(This space for Federal or State office use)

PERMIT NO.

43-017-30088

APPROVAL DATE

7/9/80

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

SELECTED REFERENCES

- Anderson, B.A. 1979, Desert Plants of Utah: Cooperative Extension Service, Utah State University, Logan, Utah. 146 p.
- Bureau of Land Management, 1979, Final Initial Wilderness Inventory, Utah: U.S. Department of the Interior, BLM, Salt Lake City, Utah, 50 p.
- Bureau of Land Management, 1979, Interim Management Policy and Guidelines for Lands Under Wilderness Review: U.S. Department of the Interior, BLM, Washington, D.C. 32 p.
- Keller, E.A., 1976, Environmental Geology: C.E. Merril Publishing Company, Columbus, Ohio. 488 p.
- National Park Service, 1979, Draft Mineral Management Plan: USDI/NPS, Page, A2. 56 p.
- National Park Service, 1979, Proposed General Management Plan, Wilderness Recommendations, Road Study Alternatives, Final Environmental Statement, Glen Canyon National Recreation Area / Arizona-Utah: USDI/NPS, Page A2. 347p.
- Rocky Mountain Association of Geologists, 1972, Geologic Atlas of the Rocky Mountain Region: Denver, Colorado. 331 p.
- U.S. Geological Survey, 1979, Development of Coal Resources in Southern Utah, Final Environmental Statement: Department of the Interior, U.S. Geological Survey, Washing, D.C. 611 p.
- Wilson, LeMoyne, et.al, 1975, Soils of Utah: Agricultural experiment Station, Bulletin 492, Utah State University, Logan, Utah. 94 p.
- Zarn, Mark, 1977, Ecological Characteristics of Pinyon-Juniper Woodlands on the Colorado Plateau: U.S. Dept. of Interior, Bureau of Land Management, Technical Note 310, Denver, Colorado 183 p.

Oil and Gas Drilling

EA #480-80

United States Department of the Interior
Geological Survey
2000 Administration Bldg.
1745 West 1700 South
Salt Lake City, Utah 84104

Usual Environmental Analysis

Date: July 1, 1980

Operator: William C. Kirkwood Project or Well Name and No.. 22-20
Location: 1790' FNL & 3037' FEL Sec.: 20 T.. 31S R.: 15E
County: Garfield State: Utah Field/Unit: Wildcat
Lease No.: U-21477 Permit No.: N/A

Joint Field Inspection Date: June 26, 1980

Prepared By: George Diwachak

Field Inspection Participants, Titles and Organizations:

George Diwachak	Environmental Scientist	U.S.G.S.
Larry Gearhart	Surface Protection	BLM
Lynn Jackson	Geologist	BLM
Wallace J. Averett	Engineer	William C. Kirkwood
Larry Becker	Surveyor	Powers Elevation

Related Environmental Analyses and References:

- (1) Final Environmental Statement - Proposed General Management Plan, Wilderness Recommendation, Road Study Alternatives: Glenn Canyon National Recreation Area, National Park Service, Page, Arizona, July 1979.

lj 7/3/80

George Diwachak
Put 10x10
No access
Wilderness
W.C. Kirkwood
Noted - G. Diwachak

DISCRIPTION OF PROPOSED ACTION

Proposed Action:

1. Location State: Utah.
 County: Garfield

 1790' FNL, 3037' FEL, SE 1/4 NW 1/4
 Section 20, T 31S, R 15E, S L M.
2. Surface Ownership Location: Public.
 Access Road: Public.

Status of
Reclamation Agreements: Not Applicable.

3. Dates APD Filed: June 4, 1980 .
 APD Technically Complete: June 23, 1980 .
 APD Administratively Complete: June 4, 1980 .

4. Project Time Frame

 Starting Date: Upon approval .

 Duration of Drilling activities: 2-3 days.

A period of 30 to 60 days is normally necessary to complete a well for production if hydrocarbons are discovered. If a dry hole is drilled, recontouring and reseeding would normally occur within one year, revegetation or restoration may take several years. If the well is a producer, an indefinite period of time would occur between completion and rehabilitation.

5. Related actions of other federal or state agencies and Indian tribes:

 The location falls within a BLM Wilderness Study Area with no exceptional wilderness characteristics and as a result of a BLM inventory, the unit has been recommended to be dropped from further study (See attached BLM Memo).
6. Nearby pending actions which may affect or be affected by the proposed action:

 None known.
7. Status of Variance Requests:

 None known.

The following elements of the proposed action would/could result in environmental impacts:

1. The drill site would not be bladed. A truck mounted, air drilling rig would be employed utilizing an area 50 feet wide by 100 feet long. A small 10' X 10' reserve pit would be constructed to hold cuttings. A pit toilet would also be constructed for human sewage.

No access road would be constructed. Surface disturbances would be kept to a minimum.

This well is part of an 8 well program within T 31S, R 15E.

2. Drilling techniques would employ a small truck mounted, air rig.
3. Waste disposal - All trash would be confined to containers and disposed of in a BLM approved location.
4. Traffic would be minimal and should be confined to existing roadways.
5. Water requirements - None needed.
6. Completion - None Anticipated.
7. Production - No production facilities are anticipated at this time.
8. Transportation of hydrocarbons - Not requested in APD.

Details of the proposed action are described in the Application for Permit to Drill.

The location was moved 75 feet west to an existing trail to minimize surface disturbances.

Environmental Considerations of the Proposed Action:

Regional Setting/Topography: Regional topography consists of Canyonlands terrain, steep, rock walled canyons and mesas with relatively flat valleys, within the Dirty Devil River Basin. The location is situated upslope of the wide valley of North Hatch Canyon. Slopes are minimal.

PARAMETER

A. Geology

1. Other Local Mineral Resources to be Protected: None.

Information Source: APD, Mineral Evaluation Report, Mining Report.

2. Hazards:

a. Land Stability: No instability expected, wellsite terrain is basically flat. A truck mounted rig with hydraulically controlled leveling devices would be used.

Information Source: APD, Field Observation, Operator.

b. Subsidence: None expected.

Information Source: APD, Field Observation.

c. Seismicity: The wellsite is in an area of minor seismic risk.

Information Source: Rocky Mountain Association of Geologists.

d. High Pressure Zones/Blowout Prevention: No high pressure anticipated or found during drilling of nearby State Wells in Section 32, T 31S, R 15E and Section 36, T 31S, R 14E. No BOP equipment planned for this shallow test.

Information Source: APD, Operator.

B. Soils:

1. Soil Character: Soils in the area are a sandy clay with occasional sandy areas. Soil disturbances would be minimal and confined to pit construction.

Information Source: Field Observation, APD, BLM.

2. Erosion/Sedimentation: Minimal as surface disturbances would be limited.

Information Source: BLM, APD, Field Observation.

C. Air Quality: The wellsite is within a Class II Attainment Area. Air quality would decrease temporarily from rig and vehicle emissions and fugitive dust.

Information Source: BLM, Field Observation.

D. Noise Levels: Noise levels would increase temporarily from rig and vehicle operations affecting wildlife in a distributional sense.

Information Source: Field Observation.

E. Water Resources

1. Hydrologic Character

a. Surface Waters: No perennial drainages in area. Wellsite is in Dirty Devil River Basin which flows to Lake Powell. Some siltation to Lake Powell could occur but would be minimal. No water is needed for drilling.

Information Source: Field Observation, APD.

b. Ground Waters: No fresh water expected to be encountered during drilling. Commingling of any aquifers in area is possible.

Information Source: Mineral Evaluation Report.

2. Water Quality

a. Surface Waters: Spill potential to live surface waters is minimal.

Information Source: Field Observation.

b. Ground Waters: Insignificant impacts expected since air drilling techniques would be employed.

Information Source: Field Observation, APD.

F. Flora and Fauna

1. Endangered and Threatened Species Determination

Based on the formal comments received from the BLM on July 1, 1980, we determine that there would be no effect on endangered and threatened species and their critical habitat.

2. Flora: Vegetation in area is sparse due to limited water. Plants are of a blackbrush community.

Information Source: Field Observation, BLM.

3. Fauna: Wildlife in area is sparse due to limited food source and consists predominately of rodents, coyotes, reptiles, chukars, songbirds and few raptors.

Information Source: APD, Field Observation, BLM.

G. Land Uses

1. General: The general area is used for grazing, minimal mineral exploration/extraction and recreation.

Information Source: BLM, Field Observation.

2. Affected Floodplains and/or Wetlands: N/A.

Information Source: Field Observation.

3. Roadless/Wilderness Area: The wellsite falls within BLM Wilderness Inventory Unit #241, Fiddler Butte. The area's wilderness characteristics are not exceptional and as a result, a BLM inventory has recommended that the unit be dropped from any further wilderness study, however, under BLM's Interim Management Policy of Lands under Wilderness Review (IMP), it is mandated that the area be protected from any further undue or unnecessary degradation until October 1, 1980, at which time the area will officially fall out of further wilderness consideration. This allows for public comment on BLM's decision. Any comments or protests to return this area back into wilderness study status would require the BLM to assess the comments and decide if they are worthy of consideration. Therefore, the area could return into Wilderness Study Status in October.

The BLM has determined that impacts from this project would not impair the wilderness characteristics of the area. This fact is supported by the operating plan presented in the APD. Furthermore, if recommended mitigative measures are followed, any impacts could be returned to a substantially unnoticed condition.

- H. Aesthetics: The operation does not blend in with the natural surroundings. However, considering the short duration of drilling the proposed 8 well program and the minimal surface disturbances proposed, this action would pose little impact to area aesthetics.

Information Source: Field Observation, APD.

- I. Socioeconomics: The remoteness of the area limits socioeconomic impacts in Garfield County, Utah. Most services and personnel would emanate from Moab, Utah, utilizing company camp facilities on State Lands. Some economic increases could be expected in Hanksville, Utah, the nearest town.

Information Source: Field Observation.

- J. Cultural Resources Determination: Based on the formal comments received from BLM on July 1, 1980, we determine that there would be no effect on cultural resources.

Information Source: BLM.

- K. Other: Glen Canyon National Recreation Area is located about 5 miles south-east of the project area. No impacts to the recreation area are expected. Lake Powell is about 20 miles southeast of the site.

Information Source: Field Observation.

- L. Adequacy of Restoration Plans: The restoration plan meets the minimum requirements of NTL-6. Restoration recommendations have been supplied by the BLM.

Information Source: BLM, Field Observation, APD.

Alternatives to the Proposed Action:

1. Disapproving the proposed action or no action - If the proposed action is denied, no action would occur, the existing environment would remain in its present state, the lessee/operator would not realize any return on investments and the public would be denied a potential energy source.
2. Approving the project with the recommended stipulations - Under federal oil and gas leasing provisions, the Geological Survey has a responsibility to approve mineral development if the environmental consequences are not too severe or irreversible. Permanent damage to the surface and subsurface would be prevented as much as possible under USGS and Surface Management Agency supervision. Environmental impacts would be significantly mitigated.

Adverse Environmental Effects:

1. If approved as proposed:

- a. A minimal amount of vegetation would be removed, slightly increasing and accelerating erosion potential.
- b. Minor air pollution would be induced on a temporary basis due to exhaust emissions from rig engines and support traffic.
- c. The potential for fires, leaks, spills of gas and oil or water exists but is minimal.
- d. During construction and drilling phases of the operation, noise and dust levels would increase.
- e. Distractions from aesthetics during the lifetime of the project would exist.
- f. Erosion from the site would eventually be carried as sediment in the Lake Powell.
- g. If hydrocarbons would be discovered and produced, further development of the area could be expected to occur, which would result in the extraction of irreplaceable resource, and further negative environmental impacts. These impacts include the cumulative loss of wildlife habitat due to the areas necessary for roads, pipelines, drillsites, and transmission lines. These actions may disrupt wildlife social behavior and force habitat relocation over an extended period of time. In addition, the cumulative effects of non-point erosion become substantial in a developing field, primarily those located near perennial streams where siltation and sedimentation are critical to aquatic life cycles.

2. Conditional Approval:

All adverse impacts described in section one above could occur, except:

- a. Constructing a reserve pit would provide for adequate disposal of cuttings and any encountered ground water.
- b. Keeping dirt work to a minimum would preserve the remote, pristine characteristics of the area.

Recommended Approval Conditions:

Drilling should be allowed, provided the following mitigative measures are incorporated into the proposed APD and adhered to by the operator:

- 1. See attached BLM Stipulations.
- 2. The drillsite will not be bladed, however, a small 10' by 10' reserve pit and a pit toilet would be constructed.

3. All trash and debris will be removed from the site.
4. The drillsite will be moved 75 feet west to minimize surface disturbances.

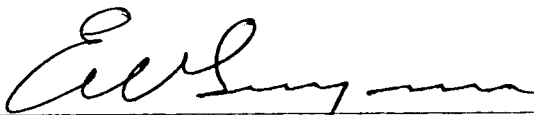
Controversial Issues and Conservation Division Response:

None.

We have considered the proposed action in the preceding pages of this EA and find, based on the analysis of environmental considerations provided therein, no evidence to indicate that it will significantly (40 CFR 1508.27) impact the quality of the human environment.

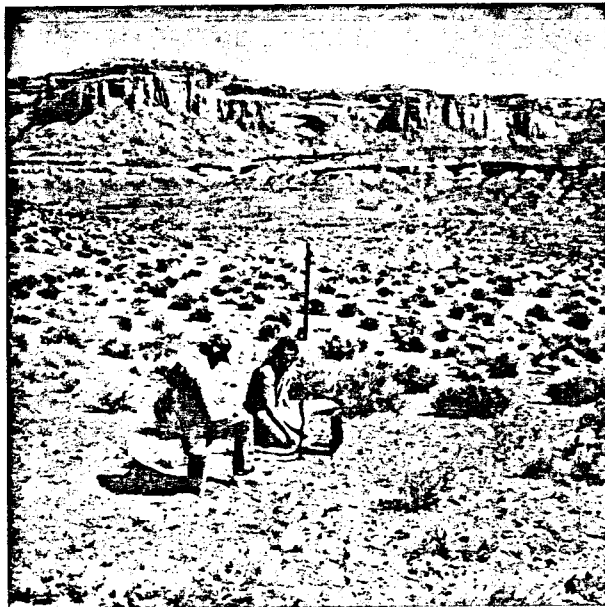
Determination:

I determine that the proposed action (as modified by the recommended approval conditions) does not constitute a major Federal action significantly affecting the quality of the human environment in the sense of NEPA, Section 102 (2)(C).


Signature & Title of Approving Official

DISTRICT ENGINEER

JUL 08 1980
Date



KIRKWOOD 22-20

N

**** FILE NOTATIONS ****

DATE: July 8, 1980
OPERATOR: William C. Kirkwood
WELL NO: Hatch Canyon Unit # 22-20 (Monroe)
Location: Sec. 20 T. 31S R. 15E County: Hayfield
File Prepared: ☒ Entered on N.I.D: ☒
Card Indexed: ☒ Completion Sheet: ☒
API Number 43-017-30088

CHECKED BY:

Petroleum Engineer: M. J. Minder 7-8-80

Director: _____

Administrative Aide: OK on Unit boundary spacing

APPROVAL LETTER:

Bond Required: ☐ Survey Plat Required: ☐
Order No. _____ O.K. Rule C-3 ☐
Rule C-3(c), Topographic Exception - company owns or controls acreage
within a 660' radius of proposed site

Lease Designation Ed Unit Plotted on Map ☒

Approval Letter Written ☒ plm
Hot Line ☒ P.I. ☒

*Unit
approval*

July 9, 1980

William C. Kirkwood
P.O. Drawer 3439
Casper, Wyoming 82601

RE: HCU #14-15 (Remington), Sec. 15, T. 31S, R. 15E., Garfield County, Utah
HCU #21-15 (Winfield), Sec. 15, T. 31S, R. 15E., Garfield County, Utah
~~HCU #22-20 (Plumree)~~, Sec. 20, T. 31S, R. 15E., Garfield County, Utah
HCU #23-8 (Magnum), Sec. 8, T. 31S, R. 15E., Garfield County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil wells is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon these wells, you are hereby requested to immediately notify the following:

MICHAEL T. MINDER - Petroleum Engineer
Office: 533-5771
Home: 876-3001

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API numbers assigned to these wells are #14-15: 43-017-30086; #21-15: 43-017-30087; #22-20: 43-017-30088, #23-8: 43-017-30089.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Michael T. Minder
Petroleum Engineer

/btm

cc: USGS

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK
DRILL ☒ DEEPEN ☐ PLUG BACK ☐

B. TYPE OF WELL

OIL
WELL ☒GAS
WELL ☐

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

William C. Kirkwood

3. ADDRESS OF OPERATOR

P. O. Drawer 3439, Casper, Wyoming 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*
At surface

1790 FNL & 2962 FEL (SE NW)

At proposed prod. zone

3037

Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

Approximately 45 miles east of Hanksville, Utah

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drlg. unit line, if any)

1790

16. NO. OF ACRES IN LEASE

2510

17. NO. OF ACRES ASSIGNED
TO THIS WELL

40

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT.

2640' +

19. PROPOSED DEPTH

670'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

4988' GR

22. APPROX. DATE WORK WILL START*

June 15, 1980

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8½"	6 5/8" New	24# K-55 8 Rd.	20'	10 sxs cement Class "G" 2% CaCl
5 5/8"	4 1/2" New	9.5# K-55 8Rd.	670'	50 sxs cement Class "G" 2% CaCl

1. Drill 8½" hole and set 6 5/8" surface casing to 20" with good returns.
2. Log B.O.P. checks in daily drill reports and drill 5 5/8" hole to 670'.
3. Run tests if warranted and run 4½" casing if productive.
4. Run logs, as needed, and perforate and stimulate as needed.

EXHIBITS ATTACHED:

"A" Location and Elevation Plat
"B" The Ten-Point Compliance Program
"D" The Multi-Point Requirements for A.P.D.
"E" Accres Road Maps to Location
"F" Radius Map of Field

RECEIVED
JUL 10 1980DIVISION OF
OIL, GAS & MINING

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

Wm C. Kirkwood

TITLE

Pete Empe

DATE

2-14-80

(This space for Federal or State office use)

PERMIT NO.

(Orig. Sgd.) R. A. Henricks

FOR

APPROVAL DATE

E. W. GUYNN
DISTRICT ENGINEER

APPROVED BY

TITLE

DATE

JUL 09 1980

CONDITIONS OF APPROVAL, IF ANY:

CONDITIONS OF APPROVAL ATTACHED
TO OPERATOR'S COPY

*See Instructions On Reverse Side

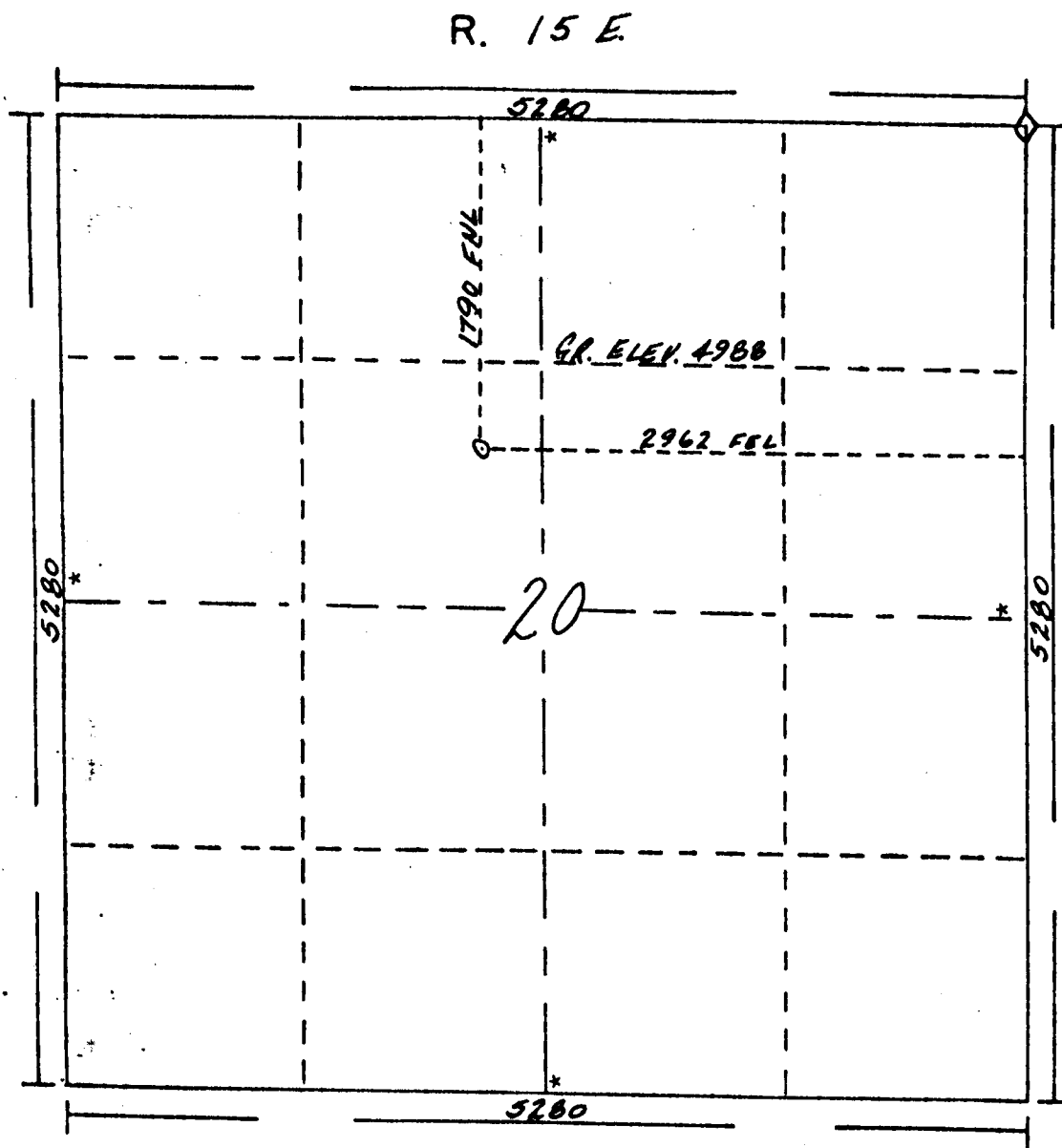
NOTICE OF APPROVAL

FLARING OR VENTING OF
GAS IS SUBJECT TO NTL 4-A
DATED 1/1/80

ST. O&G



* Protraction Diagram No. 3
BLM Area 2
March 7, 1961



Scale... 1" = 1000'

Powers Elevation Company, Inc. of Denver, Colorado
has in accordance with a request from *Tim Schowalter*
for *WILLIAM C. KIRKWOOD*
determined the location of #22-20 MONROE
to be 1790 FNL & 2962 FEL of Section 20 Township 31 S.
Range 15 E. of the Salt Lake Base and Meridian
Garfield County, Utah.

I hereby certify that this plat is an
accurate representation of a correct
survey showing the location of

#22-20 MONROE

Date: 5-9-80

Jerry H. Becker
Licensed Land Surveyor No. 4189
State of Utah

EXHIBIT "B"

TEN-POINT COMPLIANCE PROGRAM
OF NTL-6 APPROVAL OF OPERATIONS

Attached to Form 9-331C
William C. Kirkwood
Monroe 22-20
Sec. 20 T31S R15E
1790' FNL & si62 FEL
Garfield County, Utah

1. The Geologic Surface Formation

The surface formation is the Moenkopi.

2. Estimated Tops of Important Geologic Markers

White Rim	370'
Organ Rock	650'
Total Dept	670'

3. Estimated Depths of Anticipated Water, Oil, Gas or Minerals

No water zones are anticipated
White Rim 370' Oil

4. The Proposed Casing Program

<u>HOLE SIZE</u>	<u>INTERVAL</u>	<u>SECTION LENGTH</u>	<u>SIZE (OD)</u>	<u>WEIGHT & GRADE & JOINT</u>	<u>NEW OR USED</u>
8 1/2"	0-20'	20'	6 5/8"	24#, K-55, 8Rd.	New
5 5/8"	0-670'	670'	4 1/2"	9/5#, K-55, 8Rd.	New

Cement Program

- A. Surface casing - 10 sxs. cement, Class "G", 2% CaCl
- B. Production casing - 50 sxs. cement, Class "G", 2% CaCl.

5. The Operator's Minimum Specifications for Pressure Control

Not Applicable

6. The Type and Characteristics of the Proposed Circulating Muds

Not Applicable - Air Drilled.

7. The Auxiliary Equipment to be Used

Not Applicable

8. The Testing, Logging and Coring Programs to be Followed

- (a) No DST'S are anticipated.
- (b) An IES Log and a density log will be run from surface to 650 feet.
- (c) Coring is anticipated from the top of the White Rim to top of the Organ Rock, a total of 280 feet.
- (d) Stimulation procedures will be determined after evaluation of logs. If treatment is indicated, appropriate Sundry Notice will be submitted.

9. Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well.

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is set for June 15, 1980, or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 4 days after spudding the well and drilling to casing point.

EXHIBIT "D"

MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Attached to Form 9-331C
William C. Kirkwood
22-20 Monroe
1790' FNL & 2962' FEL
Sec. 20 T31S R15E
Garfield County, Utah

1. Existing Roads

- A. The proposed well site and elevation plat is shown as EXHIBIT "A". Staking included two 200' directional reference stakes, also shown on EXHIBIT "A".
- B. From Hanksville Post Office go Easterly 18.2 miles on Highway #95; turn left on BLM dirt road to Poison Spring Canyon; go 16.4 miles to Dirty Devil River. Ford river and take road around Buckacre Point and into North Hatch Canyon. Continue up North Hatch Canyon until a road goes to the South in Sec. 20, follow this until you reach the location which is on the left of the road.
- C. All roads to location are color-coded on EXHIBIT "E". No new access road is required.
- D. This is an exploratory well. All existing roads within a three-mile radius are shown on EXHIBIT "E".
- E. N/A
- F. The existing roads need no improvement except to clear off rocks and repair winter damage.

2. Planned Access Roads

No new access road will be required for drilling this location.

The grade on the existing roads ranges from 0-15%; most areas are 3-4%. No road construction or upgrading is planned if well is productive. The existing roads cross BLM land as shown on EXHIBIT "E".

3. Location of Existing Wells

For all existing wells within two mile radius of Exploratory well, see EXHIBIT "F".

- (1) There are 0 water wells within a two mile radius of this location.
- (2) There are 0 abandoned wells in this two mile radius.
- (3) There are 0 temporarily abandoned wells.
- (4) There are 0 disposal wells.
- (5) There are 0 wells presently being drilled.
- (6) There are 0 producing wells within this two mile radius.
- (7) There are 0 shut-in wells.
- (8) There are 0 injection wells.
- (9) There are 0 monitoring or observation wells for other uses.
- (10) There are several core holes for prospecting located throughout the canyon lands.

4. Location of Existing and/or Proposed Facilities

A. Within one-mile radius of location, the following existing facilities are owned or controlled by lessee/operator:

- (1) Tank Batteries: None
- (2) Production Facilities: None
- (3) Oil Gathering Lines: None
- (4) Gas Gathering Lines: None
- (5) Injection Lines: None
- (6) Disposal Lines: None

B. If production is obtained, there will be no production facilities installed at this time.

5. Location and Type of Water Source

No water will be required. This well is to be air-drilled.

6. Construction Materials

No construction materials are needed for any phase of the proposed operations.

7. Handling of Waste Materials and Disposal

- (1) There will be no drill cuttings. This well is to be air-drilled and exhaust will be dispersed into the atmosphere. ?
- (2) There will be no drill fluids and no pits will be dug. If any water is encountered during drilling, a surface tank will be set.
- (3) Garbage and trash will be collected in containers and hauled away to approved sanitary landfill. Human waste will be collected in chemical facility and hauled away.
- (4) All materials used during drilling will be removed from the drillsite within 30 days after completion of drilling.

8. Ancillary Facilities

No air strip, camp or other facilities will be built during drilling of this well.

9. Well Site Layout

- (1) No drill pad will be constructed for drilling this well.
- (2) A truck-mounted rig will be used. The truck is approximately 30' long and weighs approximately 8 tons.
- (3) No pits will be dug. There will be no living facilities or trailers on site.

10. Plans for Restoration

- (1) Such disturbance as will be created by this drilling operation can be easily repaired should this area be finalized as a Wilderness and Recreation Area.

- (2) After drilling operations cease, revegetation and restoration will be performed in accordance with B.L.M. recommendations. This will be undertaken within whatever time frame the B.L.M. deems advisable.

11. Other Information

- (1) The soil is a sandy-clay loam. No distinguishing geological features are present. The area is covered with cedar, shadscale, mormon tea, rabbit brush, wild flower, cheat grass and other grasses. There are livestock, rabbits, lizards and chubars in the area. The location is beside the road. The land slopes to the East toward a drainage that flows northerly into North Hatch Canyon streambed.
- (2) The primary surface use is for grazing and recreation. The surface is owned by the U.S. Government.
- (3) The closest live water is in South Hatch Canyon, south of the the location, as shown on Exhibit "E".

The closest dwelling is Hite Marina, approximately 20 miles south of the location

There are no known archaeological, historical, or cultural heritages that will be disturbed by this drilling.

- (4) There are no reported restrictions or reservations noted on the oil and gas lease.
- (5) Drilling is planned for on or about June 15, 1980. It is anticipated that the casing point will be reached within 4 days after commencement of drilling.

12. Lessee's or Operator's Representative

George Lapaseotes
Agent Consultant for
William C. Kirkwood
600 South Cherry Street
Suite 1201
Denver, Colorado 80222
Phone (303) 321-2217

William C. Vandeventer
William C. Kirkwood
Drawer 3439
Casper, Wyoming 82601
(307) 265-5178

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by William C. Kirkwood and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date

5-29-80

George Lapaseotes

George Lapaseotes
Agent Consultant for
William C. Kirkwood

WAYNE
GARFIELD

2 mile radius

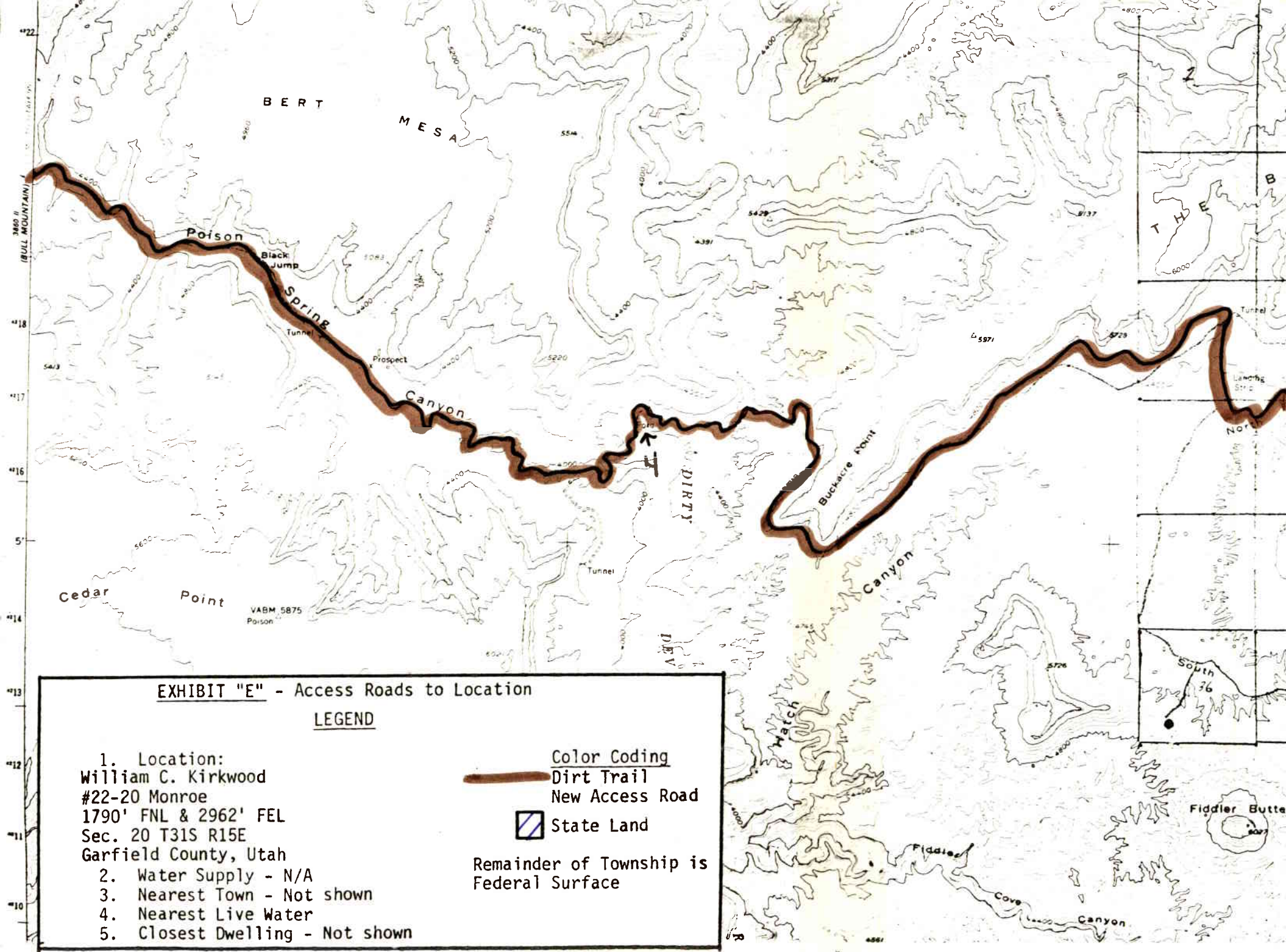
N. HATCH

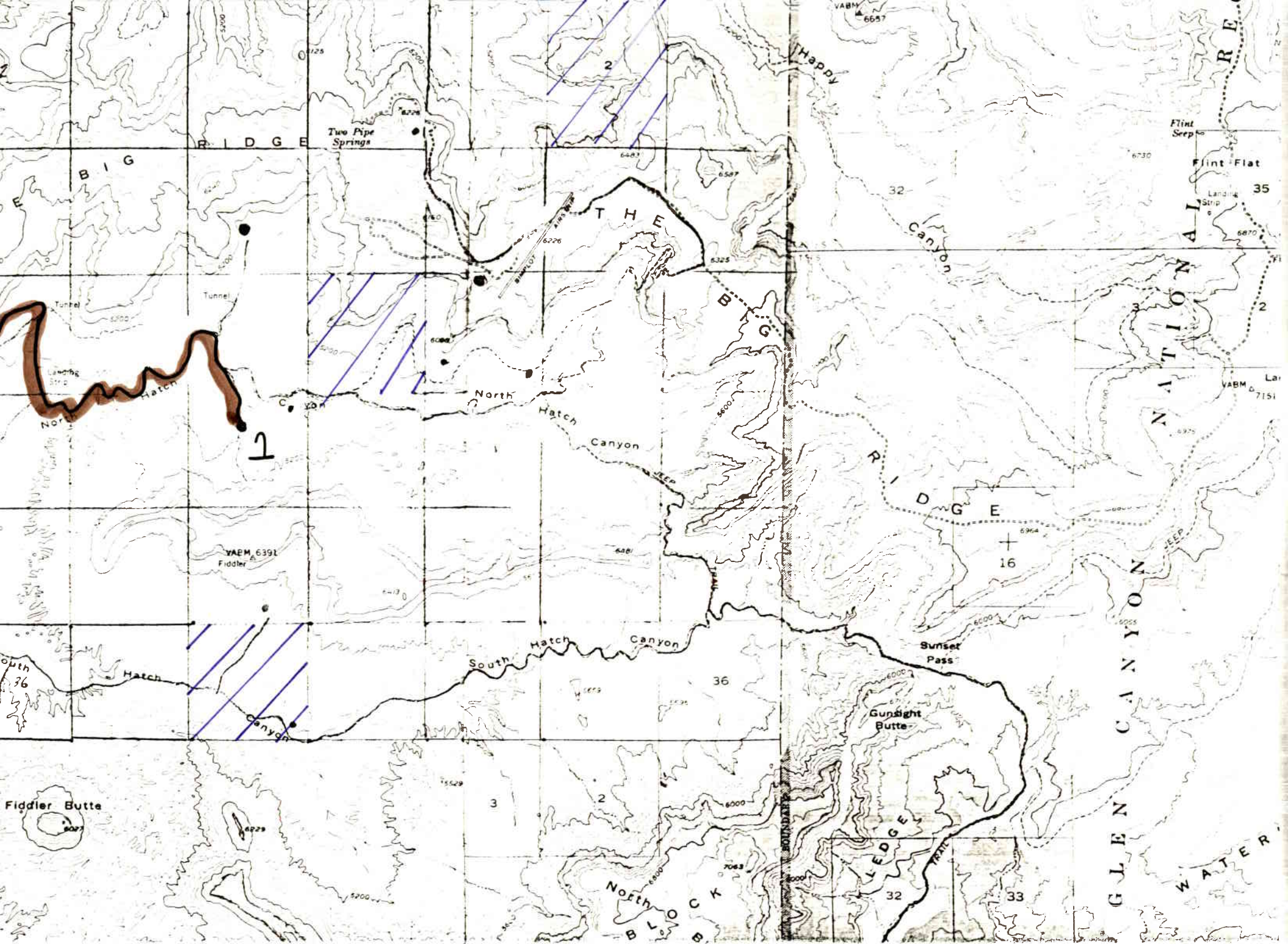
#22-20 Monroe

S. HATCH

LEGEND

- | | |
|-----------------------|----------------------------|
| ● LOCATION | * OIL & GAS WELL |
| ◆ DRY HOLE | * ABANDONED OIL & GAS WELL |
| ● OIL WELL | * GAS WELL |
| ◆ ABANDONED OIL WELL | * ABANDONED GAS WELL |
| ▲ TRIANGULATION POINT | □ WATER WELL |





Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1. TYPE OF WELL: OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> DRY <input type="checkbox"/> Other _____		N/A	
2. TYPE OF COMPLETION: NEW WELL <input checked="" type="checkbox"/> WORK OVER <input type="checkbox"/> DEEP-EN <input type="checkbox"/> PLUG BACK <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> Other _____		7. UNIT AGREEMENT NAME Hatch Canyon	
3. NAME OF OPERATOR William C. Kirkwood		8. FARM OR LEASE NAME Monroe	
4. ADDRESS OF OPERATOR P.O. Box 3439, Casper, Wyoming 82602		9. WELL NO. #22-20	
5. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)* At surface 2907' FEL 1790' FNL At top prod. interval reported below same At total depth same		10. FIELD AND POOL, OR WILDCAT Wildcat	
14. PERMIT NO. 43-017-30088		12. COUNTY OR PARISH Garfield	
DATE ISSUED 7-7-70		13. STATE Utah	
15. DATE SPUN OFF 7/9/80	16. DATE T.D. REACHED 7/15/80	17. DATE COMPL. (Ready to prod.) 9-80	18. ELEVATIONS (DP, RKB, RT, GR, ETC.)* 4988' GL
19. ELEV. CASINGHEAD	20. TOTAL DEPTH, MD & TVD 500'		
21. PLUG, BACK T.D., MD & TVD	22. IF MULTIPLE COMPL., HOW MANY*	23. INTERVALS DRILLED BY all	ROTARY TOOLS CABLE TOOLS
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)* 264-320 White Rim			25. WAS DIRECTIONAL SURVEY MADE NO
26. TYPE ELECTRIC AND OTHER LOGS RUN Gamma Ray Caliper Density-Resistance			27. WAS WELL CORED YES
28. CASING RECORD (Report all strings set in well)			
CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE
5 5/8"	20#	20'	7 7/8"
4 1/2"	9.5#	407.79'	6"
29. LINER RECORD			
SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*
30. TUBING RECORD			
SIZE	DEPTH SET (MD)	PACKER SET (MD)	
31. PERFORATION RECORD (Interval, size and number)			
32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.			
DEPTH INTERVAL (MD)		AMOUNT AND KIND OF MATERIAL USED	
33. PRODUCTION			
DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)	
WELL STATUS (Producing or shut-in) SI			
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD
FLOW, TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL. GAS—MCF. WATER—BBL. GAS-OIL RATIO
34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)			
TEST WITNESSED BY			
35. LIST OF ATTACHMENTS			
36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records			
SIGNED <u>Wm C. Kirkwood</u>		TITLE <u>Prod. Engr.</u>	
DATE <u>10-28-80</u>			

*** (See Instructions and Spaces for Additional Data on Reverse Side)**

William C. Kirkwood
 22-20 Monroe
 G. Elevation 4988

DEPTH	FORMATION	LITHOLOGY	THICKNESS DRILLED
0-264'	Moenkopi	Red & White Siltstone and Shale - layered	264'
264-307'	Upper White Rim	Dolomite & Sandstone layered	43'
307-643'	White Rim		336'
643-680'	Organ ?	Interbedded Red & Green Siltstone with White Sandstone and Siltstone	37'
680-806'	Cedar Mesa	Tan-White Sandstone with green Siltstone layer at 792'	126'

T.D. 806' in Cedar Mesa 7/15/80

Cored from 210-220' Moenkopi formation 2' Dolomite with interbedded
 Sandstone saturation in Sandstone

Cored from 266-643', White Rim. From 264-277', 13' Saturated (Moderate-Heavy)
 From 277-307', 30' Dolomite conglomerate with Sandstone Matrix and Dolomite
 and Sandstone layers. From 307-380' 73' of Sandstone with saturation
 in layers with 3' heavy saturation from 334' 6"-337' 6",
 From 380'-643' no saturation.

Cored from 643-680' Organ ? no saturation
 680-806' Cedar Mesa? no saturation

Hole producing water from Moenkopi formation and Moenkopi - White Rim contact

Bailed in White Rim after approximately 4 days. Small amount of oil noticed
 on top of water.

Bailed in Cedar Mesa. No oil apparent.

AUG 29 1980

RCM'79

FM TOPS NOTES	DEPTHS	POROSITY	GRADES	ROUNDING	SORTING	% of FMWK	GRAIN SIZE	HOLE # 22-20 MONROE SPOT SEC 22 T3/S R15E		SATURATION- OIL
								LITHOLOGY DESCRIPTION	DIAGENESIS	
MOENKOPF	0-20			F	P	8		SURFACE DEBRIS, SLTST, RED & WT	CALC. CNT	NONE
	20-60			F	M	8		SLTST, RED	" "	"
	60-70			F	M	8		SLTST, RED & WHITE	" "	"
	70-120			F	M	8		SLTST, RED	" "	"
	120-140			F	M	8		SLTST, TAN	" "	"
	140-180			F	M	8		SLTST, RED	" "	"
	180-210			F	M	8		SLTST, TAN	" "	"
CORE FROM 210'-220'	210-211			R	M	5		DOL W/ SS INTERLAYERED	" "	MOD SAT IN SS
	211-215			F	M	5		DOL W/ SLTST, WT	" "	NONE
	215-220			F	M	5		DOL W/ RED & WHITE SLTST	" "	"
	220-240			F	M	8		SLTST RED W/ THIN (<1") DOL LYS	" "	"
	240-264			F	M	8		SLTST RED	" "	"
	264-266			R	M	8		SS, WT	" "	SLIGHT SAT THROUGH
START CORE at 266'	266-267			R	M	8		" "	" "	"
	267-268			R	M	6		SS W/ INTERLAYERED DOL	" "	SAT IN SS LIGHT
WHITE RIM UPPER	268-270			R	M	8		SS, WT	" "	MOD SAT LYS, LIGHT THROUGH
	270-272			R	M	8		" "	" "	HYV SAT LYS, MOD THROUGH
	272-							DOL LAYER APPX 1"		NONE
	272-273			R	M	8		SS, WT	CALC. CNT	MOD-HYV SAT
	273-274			R	M	8		" "	" "	MOD SAT LYS, LIGHT THROUGH
	274-275			R	M	8		SS, WT	" "	MOD SAT THROUGH
	275-277			R	M	8		" "	" "	MOD-HYV THROUGH
	277-280			F	M	3		DOL W/ INTERBEDDED SLTST, WT	" "	NONE
	280-280' 6"			R	M	9		SS, WT	" "	HYV THROUGHOUT
	280' 6"-282			R	M	3		DOL MUDSTONE CONGL W/ SS MATRIX	" "	MOD SAT IN SS
	282-284' 6"			R	M	4		DOL W/ INTERLAYERED SLTST WT	" "	NONE
	284' 6"-289' 5"			R	M	5		DOL W/ INTERLAYERED SS WT	" "	LIGHT-MOD IN SS
	289' 5"-301			R	M	9		SS, WT	" "	MOD THROUGHOUT
	301-303			R	M	3		DOL MUDSTONE CONGL W/ SS MATRIX	" "	HYV SAT IN SS
	303-316			R	M	5		DOL W/ INTERLAYERED INT SLTST	" "	NO SAT
	316-307			R	M	6		DOL W/ SS, LYS	" "	SAT MOD IN SS
TOP OF WHITE RIM	307-311			R	M	8		SS, WT X-BEDDED	" "	MOD SAT IN LYS (<3")
	311-316			R	M	8		SS, WT	" "	"
	316-318			R	M	8		SS, WT	" "	MOD THROUGHOUT & LYS
	318-339' 6"			R	M	8		" "	" "	MOD IN LYS OF LESS CNT
	339' 6"-3376			R	M	8		" "	" "	SAT HYV THROU
	3376-611-360			R	M	8		" "	" "	SAT IN LYS (<2") & LESS CNT
	360'-380'			R	M	8		" "	" "	"
	380'-420'			R	M	8		" "	WELL CNT	NONE
	420'-643'			R	M	8		" "	" "	"
ORIGIN ?	643'-651'			F	M	9		SLTST, GRN TO TAN	" "	"
	651'-655'			R	M	9		SS, WT TO TAN	" "	"
	655'-658'			R	M	9		SLTST, GRN & RED	" "	"
	658'-668'			R	M	9		SS, WT TO TAN	" "	"
	668'-670'			R	M	9		SLTST, RED & GRN	" "	"
	670'-688'			R	M	9		INTERLAYERED GRN & TAN SLTST	" "	"
CEDAR HESS	688'-792'			R	M	9		SS, TAN X-BEDDED	" "	"
	792-			R	M	9		SLTST GRN (1") LYS	" "	"
END OF CORE	792-806'			R	M	9		SS, TAN	" "	"



SCOTT M. MATHESON
Governor

GORDON E. HARMSTON
Executive Director,
NATURAL RESOURCES

CLEON B. FEIGHT
Director

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING
1588 West North Temple
Salt Lake City, Utah 84116
(801) 533-5771

OIL, GAS, AND MINING BOARD

CHARLES R. HENDERSON
Chairman

JOHN L. BELL
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THADIS W. BOX
MAXILIAN A. FARBMAN
EDWARD T. BECK
E. STEELE McINTYRE

May 21, 1981

William C. Kirkwood
P.O. Box Drawer 3439
Casper, Wyoming 82601

Re: SEE ATTACHED SHEET ON WELL DUE

Gentlemen:

In reference to above mentioned wells, considerable time has gone by since approval was obtained from this office.

This office has not recieved any notification of spudding. If you do not intend to drill these wells, please notify this Division. If spudding or any other activity has taken place, please send necessary forms. (If we do not hear from your company within fifteen (15) days, we will assume you do not intend to drill these wells and action will be taken to terminate the application.) If you plan on drilling these location at a later date, please notify as such.

Your prompt attention to the above will be greatly appreciated.

Very truly yours,

DIVISION OF OIL, GAS, AND MINING

SANDY BATES
CLERK-TYPIST

ATTACHED SHEET ON WELLS DUE

1. Well No. White Rim #44-4
Sec. 4, T. 31S. R. 15E.
Garfield County, Utah
2. Well No. Magnum #23-8
Sec. 8, T. 31S. R. 15E.
Garfield County, Utah
3. Well No. Remington #14-15
Sec. 15, T. 31S. R. 15E.
Garfield County, Utah
4. Well No. Winfield #21-15
Sec. 15, T. 31S. R. 15E.
Garfield County, Utah
5. Well No. Garfield #44-15
Sec. 15, T. 31S. R. 15E.
Garfield County, Utah
6. Well No. Hatch Canyon Unit #34-16A
Sec. 16, T. 31S. R. 15E.
Garfield County, Utah
7. Well No. Monroe #22-20
Sec. 20, T. 31S. R. 15E.
Garfield County, Utah
8. Well No. Eastex #41-20
Sec. 20, T. 31S. R. 15E.
Garfield County, Utah
9. Well No. State #11-2
Sec. 2, T. 32S. R. 15E.
Garfield County, Utah
10. Well No. State #31-16
Sec. 16, T. 32S. R. 15E.
Garfield County, Utah
11. Well No. State #34-16
Sec. 16, T. 31S. R. 15E.
Garfield County, Utah

WILLIAM C. KIRKWOOD

Suite 300 Market Square Building — 307/265-5178

P. O. Drawer 3439 — Casper, Wyoming 82602



OIL & GAS EXPLORATION & PRODUCTION

January 29, 1982

State of Utah
Division of Oil, Gas and Mining
1588 West North Temple
Salt Lake City, UT 84116

RE: Filing Additions to USGS Form
9-330 or OGCC-3

William C. Kirkwood
#22-20 Monroe
2962' FEL 1790' FNL
Sec. 20, T31S, R15E
Garfield County, Utah

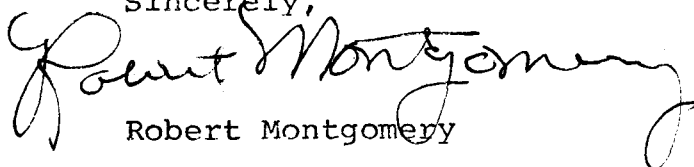
Gentlemen:

Enclosed is a copy of the logs (where run), sample and core descriptions, geologic summaries and other data obtained during drilling and completion operations to date.

Our delay in the further completion of this well, is due to testing presently being done to determine the best method of completion to be used to produce oil from this reservoir. Testing is being done by the University of Utah Fuels Engineering Department on core samples and oil from this reservoir. Additional wells have been cored to obtain samples for analysis of reservoir characteristics and to further delineate oil reserves in the Hatch Canyon Unit. In addition several wells of a pilot test pattern have been drilled.

If you require further information or have any questions please contact me.

Sincerely,


Robert Montgomery

RM:bal

Enclosures

William C. Kirkwood
#22-20 Monroe
2962' FEL 1790' FNL
Sec 20 Twp 31S R 15E
Garfield Co., Utah
G.L. 4988

Spudded	7/9/80	
T.D.	7/15/80	800'

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT ~~TRIPPLICATE*~~
(Other instructions on
reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> 2. NAME OF OPERATOR W. C. Kirkwood Oil and Gas 3. ADDRESS OF OPERATOR P. O. Drawer 3439 Casper, WY 82602 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface Wells located in Townships 31 and 32 South Ranges 14 & 15 East 14. PERMIT NO. 15. ELEVATIONS (Show whether DF, RT, GR, etc.)		5. LEASE DESIGNATION AND SERIAL NO. 6. IF INDIAN, ALLOTTEE OR TRIBE NAME 7. UNIT AGREEMENT NAME 8. FARM OR LEASE NAME 9. WELL NO. 10. FIELD AND POOL, OR WILDCAT 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA 12. COUNTY OR PARISH 13. STATE
---	--	--

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>
(Other) <input type="checkbox"/>	

SUBSEQUENT REPORT OF:

WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
(Other) <u>Well Status</u> <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

The wells described on the enclosed list are located within the Hatch Canyon Federal Oil and Gas Unit. This unit is located within the Tar Sand Triangle Special Tar Sand Area. All operations within the Hatch Canyon Unit have been suspended pending conversion of the federal leases within the unit to Combined Hydrocarbon Leases. Thus all operations on these wells have been suspended until conversion has taken place. At that time an additional Sundry Notice will be submitted outlining future activities involving these wells.

MARCH 6 1984

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Geologist

DATE March 22, 1984

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

William C. Kirkwood
#14-36 Technology
2076' FWL 746' FSL
Sec 36 Twp 31S R 14E
Garfield County, Utah
G.L. 4823'

Spudded 6/23/80
T.D. 6/25/80 462'

Deepened 7/1/80
T.D. 7/12/80 1000'

William C. Kirkwood
#33-29 Cromwell
2023' FEL 741' FSL
Sec 29 Twp 31S R 15E
Garfield County, Utah
G.L. 5120

Spudded 7/5/80
T.D. 7/8/80 700'

William C. Kirkwood
#23-8 Magnum
1934' FEL 1667' FSL
Sec 8 Twp 31S R 15E
Garfield County, Utah
G.L. 5084

Spudded 7/17/80
T.D. 7/22/80 1100'

William C. Kirkwood
#22-20 Monroe
2962' FEL 1790' FNL
Sec 20 Twp 31S R 15E
Garfield County, Utah
G.L. 4988

Spudded 7/9/80
T.D. 7/15/80 800'

William C. Kirkwood
#14-15 Remington
554' FWL 697' FSL
Sec 15 Twp 31S R 15E
Garfield County, Utah
G.L. 5307'

Spudded 8/1/80
T.D. 8/3/80 1540'

William C. Kirkwood
#14-15 Garfield
4497' FWL 599' FSL
Sec 15 Twp 31S R 15E
Garfield County, Utah
G.L. 5321'

Spudded 8/4/80
T.D. 8/6/80 1000'

William C. Kirkwood
#21-15 Winfield
2222' FWL 481' FNL
Sec 15 Twp 31S R 15E
Garfield County, Utah
G.L. 6127'

Spudded 8/12/80
T.D. 8/14/80 1800'

William C. Kirkwood
#44-4 White Rim
401' FEL 1498' FSL
Sec 4 Twp 31S R 15E
Garfield County, Utah
G.L. 6005'

Spudded 8/14/80
T.D. 8/16/80 1640'

William C. Kirkwood
#34-16 State
699' FSL 1842' FEL
Sec 16 Twp 31S R 15E
Garfield County, Utah
G.L. 5058'

Spudded 8/22/80
T.D. 8/24/80 620'

William C. Kirkwood
#34-16 Hatch Canyon Unit
SWSE 16-31S-15E
699' FSL 1842' FEL
Spudded 8/22/80
T.D. 620'
G.L. 5058'

William C. Kirkwood
34-16A Hatch Canyon Unit
SWSE 16-31S-15E
752 FSL 1789 FEL

Spudded 10/6/80
T.D. 440'
G.L. 5058'

William C. Kirkwood
34-16B Hatch Canyon Unit
SWSE 16-31S-15E
805' FSL 1736' FEL

Spudded 6/21/81
T.D. 800'
G.L. 5058'

William C. Kirkwood
34-16C Hatch Canyon Unit
SWSE 16-31S-15E
699' FSL 1736' FEL

Spudded 12/19/81
T.D. 500'
G.L. 5058'

William C. Kirkwood
34-16C Hatch Canyon Unit
SWSE 16-31S-15E
805' FSL 1842' FEL

Spudded 6/12/82
T.D. 510'
G.L. 5058'

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS, AND MINING

SUBMIT IN TRIPLICATE*
(Other instructions on
reverse side)

SUNDRY NOTICES AND REPORTS ON WELLS (Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)		5. LEASE DESIGNATION AND SERIAL NO. U-21477 6. IF INDIAN, ALLOTTEE OR TRIBE NAME N/A 7. UNIT AGREEMENT NAME Hatch Canyon 8. FARM OR LEASE NAME Monroe 9. WELL NO. 22-20 10. FIELD AND POOL, OR WILDCAT Wildcat 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Section 20, T31S, R15E 12. COUNTY OR PARISH Garfield 13. STATE UT																								
1. <input checked="" type="checkbox"/> OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER 2. NAME OF OPERATOR William C. Kirkwood 3. ADDRESS OF OPERATOR P.O. Box 3439, Casper, WY 82602 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 2962' FEL 1790' FNL 14. PERMIT NO. 43-017-30088 15. ELEVATIONS (Show whether DF, RT, OR, etc.) 4988' GL																										
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data																										
<table style="width: 100%; border: none;"> <tr> <td colspan="2" style="text-align: center; border-bottom: 1px solid black;">NOTICE OF INTENTION TO:</td> <td colspan="2" style="text-align: center; border-bottom: 1px solid black;">SUBSEQUENT REPORT OF:</td> </tr> <tr> <td style="width: 25%;">TEST WATER SHUT-OFF <input type="checkbox"/></td> <td style="width: 25%;">PULL OR ALTER CASING <input type="checkbox"/></td> <td style="width: 25%;">WATER SHUT-OFF <input type="checkbox"/></td> <td style="width: 25%;">REPAIRING WELL <input type="checkbox"/></td> </tr> <tr> <td>FRACTURE TREAT <input type="checkbox"/></td> <td>MULTIPLE COMPLETE <input type="checkbox"/></td> <td>FRACTURE TREATMENT <input type="checkbox"/></td> <td>ALTERING CASING <input type="checkbox"/></td> </tr> <tr> <td>SHOOT OR ACIDIZE <input type="checkbox"/></td> <td>ABANDON* <input type="checkbox"/></td> <td>SHOOTING OR ACIDIZING <input type="checkbox"/></td> <td>ABANDONMENT* <input type="checkbox"/></td> </tr> <tr> <td>REPAIR WELL <input type="checkbox"/></td> <td>CHANGE PLANS <input type="checkbox"/></td> <td>(Other) <input type="checkbox"/></td> <td></td> </tr> <tr> <td>(Other) <input checked="" type="checkbox"/></td> <td></td> <td colspan="2" style="text-align: center;"> (NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.) </td> </tr> </table>			NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:		TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>	FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>	SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>	REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>		(Other) <input checked="" type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	
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17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

This well is located in the Hatch Canyon Unit. All operations in this Unit have been suspended pending the conversion of Federal Oil and Gas leases within this Unit to Combined Hydrocarbon leases. Once these leases are converted a new Combined Hydrocarbon Unit will be formed and operations resumed. Until that time this well has been shut in and temporarily abandoned.

RECEIVED

JAN 17 1985

DIVISION OF
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

TITLE Geologist

DATE 1-4-85

(This space for Federal or State office use)

APPROVED BY _____
CONDITIONS OF APPROVAL, IF ANY:

TITLE _____

DATE _____

Certified #P492-469-129

*See Instructions on Reverse Side

1-14-85

✓

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
OIL AND GAS INSPECTION RECORD

OPERATOR: KIRKWOOD, WILLIAM C. LEASE: U-21477
WELL NAME: MONROE 22-20 API: 43-017-30088
SEC/TWP/RNG: 20 31.0 S 15.0 E CONTRACTOR:
COUNTY: GARFIELD FIELD NAME: WILDCAT

DRILLING/COMPLETION/WORKOVER:

- APD	- WELL SIGN	- HOUSEKEEPING	- BOPE
- SAFETY	- POLLUTION CNTL	- SURFACE USE	- PITS
- OPERATIONS	- OTHER		

SHUT-IN Y / TA -:

Y WELL SIGN	Y HOUSEKEEPING	A EQUIPMENT *	Y SAFETY
- OTHER			

ABANDONED:

- MARKER	- HOUSEKEEPING	- REHAB	- OTHER
----------	----------------	---------	---------

PRODUCTION:

- WELL SIGN	- HOUSEKEEPING	- EQUIPMENT *	- FACILITIES *
- METERING *	- POLLUTION CNTL	- PITS	- DISPOSAL
- SECURITY	- SAFETY	- OTHER	

GAS DISPOSITION:

- VENTED/FLARED	- SOLD	- LEASE USE
-----------------	--------	-------------

LEGEND: Y = YES/SATISFACTORY N = NO/UNSATISFACTORY A = NOT APPLICABLE

*FACILITIES INSPECTED:

LOCATION, SURFACE CASING - BULLPLUG, RESERVE PIT.

REMARKS:

OIL WELL - SI, BULLPLUG IN TOP OF SURFACE CASING, DRY, UNFENCED RESERVE PIT 10' X 30' X 3' DEEP, WOODEN WELL SIGN TIPPED OVER, WEEDS ALL OVER LOC.

ACTION:

FILL RESERVE PIT.

INSPECTOR: ED DEPUTY

DATE: 07/07/87

SOW

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
OIL AND GAS INSPECTION RECORD

081317

OPERATOR: KIRKWOOD, WILLIAM C.

LEASE: U-21477

WELL NAME: MONROE 22-20

API: 43-017-30088

SEC/TWP/RNG: 20 31.0 S 15.0 E

CONTRACTOR:

COUNTY: GARFIELD

FIELD NAME: WILDCAT

DRILLING/COMPLETION/WORKOVER:

- APD	- WELL SIGN	- HOUSEKEEPING	- BOPE
- SAFETY	- POLLUTION CNTL	- SURFACE USE	- PITS
- OPERATIONS	- OTHER		

SHUT-IN Y / TA -:

Y WELL SIGN	Y HOUSEKEEPING	A EQUIPMENT *	Y SAFETY
- OTHER			

ABANDONED:

- MARKER	- HOUSEKEEPING	- REHAB	- OTHER
----------	----------------	---------	---------

PRODUCTION:

- WELL SIGN	- HOUSEKEEPING	- EQUIPMENT *	- FACILITIES *
- METERING *	- POLLUTION CNTL	- PITS	- DISPOSAL
- SECURITY	- SAFETY	- OTHER	

GAS DISPOSITION:

- VENTED/FLARED	- SOLD	- LEASE USE
-----------------	--------	-------------

LEGEND: Y = YES/SATISFACTORY N = NO/UNSATISFACTORY A = NOT APPLICABLE

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REMARKS:

OIL WELL - SI, BULLPLUG IN TOP OF SURFACE CASING, DRY, UNFENCED RESERVE PIT 10' X 30' X 3' DEEP, WOODEN WELL SIGN TIPPED OVER, WEEDS ALL OVER LOC.

ACTION:

FILL RESERVE PIT.

INSPECTOR: ED DEPUTY

DATE: 07/07/87

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
OIL AND GAS INSPECTION RECORD

Sow

OPERATOR: KIRKWOOD, WILLIAM C.

LEASE: U-21477

WELL NAME: MONROE 22-20

API: 43-017-30088

SEC/TWP/RNG: 20 31.0 S 15.0 E

CONTRACTOR:

COUNTY: GARFIELD

FIELD NAME: WILDCAT

DRILLING/COMPLETION/WORKOVER:

- APD	- WELL SIGN	- HOUSEKEEPING	- BOPE
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- OPERATIONS	- OTHER		

SHUT-IN Y / TA -:

Y WELL SIGN	Y HOUSEKEEPING	A EQUIPMENT *	Y SAFETY
- OTHER			

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- MARKER	- HOUSEKEEPING	- REHAB	- OTHER
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PRODUCTION:

- WELL SIGN	- HOUSEKEEPING	- EQUIPMENT *	- FACILITIES *
- METERING *	- POLLUTION CNTL	- PITS	- DISPOSAL
- SECURITY	- SAFETY	- OTHER	

GAS DISPOSITION:

- VENTED/FLARED	- SOLD	- LEASE USE
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LEGEND: Y = YES/SATISFACTORY N = NO/UNSATISFACTORY A = NOT APPLICABLE

*FACILITIES INSPECTED:

LOCATION, SURFACE CASING - BULLPLUG, RESERVE PIT.

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OIL WELL - SI, BULLPLUG IN TOP OF SURFACE CASING, DRY, UNFENCED RESERVE PIT 10
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ACTION:

FILL RESERVE PIT.

INSPECTOR: ED DEPUTY

DATE: 07/07/87



UTAH
NATURAL RESOURCE
Oil, Gas & Mining

355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, Ut
84180-1203. (801-538-5340)

DOGM 56-64-21
an equal opportunity employer

Page 1 of 1

MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

KIRKWOOD, WILLIAM C.
P O BOX 3439
CASPER WY 82602
ATTN: AUDREY FISHER

HATCH CYN UNIT

* Combined Hydrocarbon
* Oper. Filed bankruptcy

Utah Account No. N3260

Report Period (Month/Year) 1 / 89

Amended Report ☐

Well Name	Producing	Days	Production Volume				
API Number	Entity	Location	Zone	Oper	Oil (BBL)	Gas (MSCF)	Water (BBL)
REMINGTON 14-15 <i>Comp. 9-30-80</i>	SWSW	—	SOW	U-21037			
4301730086 09645 31S 15E 15	WHRM	11015					
WINFIELD 21-15 <i>Comp. 9-30-80</i>	NENW	—	SOW	U-21037			
4301730087 09645 31S 15E 15	WHRM	11016					
MONROE 22-20 <i>Comp. 9-30-80</i>	SENEW	—	SOW	U-21477			
4301730088 09645 31S 15E 20	WHRM	11017					
MAGNUM 23-8 <i>Comp. 9-30-80</i>	NESEW	—	SOW	U-21478			
4301730089 09645 31S 15E 8	WHRM	11018					
GRMWELL 33-29 <i>Comp. 9-30-80</i>	SWSE	—	SOW	U-21476			
4301730090 09645 31S 15E 29	WHRM	11019					
WHITE RIM 44-4 <i>Comp. 9-30-80</i>	SESE	—	SOW	U-21083			
4301730091 09645 31S 15E 4	WHRM	11020					
WINFIELD 44-15 <i>Comp. 9-30-80</i>	SESE	—	SOW	U-21037			
4301730092 09645 31S 15E 15	WHRM	11021					
STATE 34-16 <i>Comp. 9-30-80</i>	SWSE	—	SOW	ML-27138			
4301730096 09645 31S 15E 16	WHRM	11022					
STATE 34-16A <i>Comp. 9-30-80</i>	SWSE	—	SOW	ML-27138			
4301730098 09645 31S 15E 16	WHRM	11023					
HATCH CANYON U 34-16B <i>Comp. 9-30-80</i>	SWSE	—	SOW	ML-27138			
4301730107 09645 31S 15E 16	WHRM						
TECHNOLOGY 14-36							
4301730085 10929 31S 14E 36	WHRM						
TOTAL							

Comments (attach separate sheet if necessary)

Entity 9645 ok. No P.A.'s in Unit!

9-25-89 All wells currently "SOW" status's for

43017-30086 is the only well that will retain entity 9645.

I have reviewed this report and certify the information to be accurate and complete.

Date _____

Authorized signature _____

Telephone _____

PLEASE COMPLETE FORMS IN BLACK INK

Bureau of Land Management
Branch of Fluid Minerals (U-922)
324 South State Street
Salt Lake City, Utah 84111-2303

3170
(U-922)

September 20, 1989

CERTIFIED MAIL - Return Receipt Requested

William C. Kirkwood
P.O. Drawer 3439
Casper, Wyoming 82402

Gentlemen:

Pursuant to our letter of August 8, 1989, the indefinite suspension of Section 9 drilling obligations within the Hatch Canyon Unit Area was lifted September 11, 1989. A copy of our August 8, 1989, correspondence and the Certified Return Receipt is enclosed for your records.

As a result of the indefinite suspension being lifted, the Hatch Canyon Unit Agreement, Garfield County, Utah, automatically terminated, effective September 18, 1989, pursuant to the last paragraph of Section 9 of the Unit Agreement.

Copies of this letter are being distributed to the appropriate Federal agencies. It is requested that you furnish notice of this termination to each working interest owner, lessee, and lessor.

In accordance with 43 CFR 3165.2, you may request a State Director Review of this decision. Any party adversely affected by a State Director Review may appeal to the Interior Board of Land Appeals as stated in 43 CFR 3165.4.

Sincerely,

Orig. Sgd: J.A. Fouts

ACTING

Robert A. Bearicks
Chief, Branch of Fluid Minerals

cc: Oil Cedar City
Hatch Canyon Unit File
Agr. Sec. Chron.
Fluid Chron.
U-942
Utah State Land Board
HMS-RFP
DOCM

MCoulthard:jw:9/19/89
0128V

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING
ENTITY ACTION FORM - FORM 6

OPERATOR WILLIAM C. KIRKWOOD

OPERATOR ACCT. NO. N 3260

ADDRESS P. O. BOX 3439

CASPER, WYOMING 82602

ACTION CODE	CURRENT ENTITY NO.	NEW ENTITY NO.	API NUMBER	WELL NAME	WELL LOCATION					SPUD DATE	EFFECTIVE DATE
					QQ	SC	TP	RG	COUNTY		
D	9645	11015	43-017-30087	WINFIELD 21-15	NENW	15	31S	15E	GARFIELD		9-18-89
WELL 1 COMMENTS: ** HATCH CANYON UNIT TERMINATED EFFECTIVE 9-18-89. ALL WELLS WITHIN UNIT BOUNDARY ARE SOW AND NOW HAVE INDIVIDUAL ENTITY NUMBERS. ONLY WELL WITH ORIGINAL # IS 43-017-30086, REMINGTON 14-15.											
D	9645	11016	43-017-30088	MONROE 22-20	SENW	20	31S	15E	GARFIELD		9-18-89
WELL 2 COMMENTS:											
D	9645	11017	43-017-30089	MAGNUM 23-8	NESW	8	31S	15E	GARFIELD		9-18-89
WELL 3 COMMENTS:											
D	9645	11018	43-017-30090	CRMWELL 33-29	SWSE	29	31S	15E	GARFIELD		9-18-89
WELL 4 COMMENTS:											
D	9645	11019	43-017-30091	WHITE RIM 44-4	SESE	4	31S	15E	GARFIELD		9-18-89
WELL 5 COMMENTS:											

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected.

LISHA ROMERO

Signature

ADMIN. ANALYST

Title

9-29-89

Date

Phone No. (801) 538-5340

STATE OF UTAH
DIVISION OF OIL, GAS AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS		5. Lease Designation and Serial Number: U-21477
Do not use this form for proposals to drill new wells, deepen existing wells, or to reenter plugged and abandoned wells. Use APPLICATION FOR PERMIT TO DRILL OR DEEPEN form for such proposals.		6. If Indian, Aliottee or Tribe Name:
1. Type of Well: OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> OTHER:		7. Unit Agreement Name: HATCH CANYON UNIT
2. Name of Operator: WILLIAM C. KIRKWOOD		8. Well Name and Number: Monroe 22-20
3. Address and Telephone Number: P. O. BOX 3439 CASPER, WY 82602-3439		9. API Well Number: 4301730088
4. Location of Well 3037' Footages: 2962' FEL, 1790' FNL QQ, Sec., T., R., M.: Sec. 20 T31S R15E		10. Field and Pool, or Wildcat: County: Garfield State: Utah

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

NOTICE OF INTENT (Submit in Duplicate)	SUBSEQUENT REPORT (Submit Original Form Only)
<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Multiple Completion <input type="checkbox"/> Other _____ </div> <div> <input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Recompletion <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off </div> </div>	<div style="display: flex; justify-content: space-between;"> <div> <input type="checkbox"/> Abandonment <input type="checkbox"/> Casing Repair <input type="checkbox"/> Change of Plans <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Fracture Treat <input type="checkbox"/> Other _____ </div> <div> <input type="checkbox"/> New Construction <input type="checkbox"/> Pull or Alter Casing <input type="checkbox"/> Shoot or Acidize <input type="checkbox"/> Vent or Flare <input type="checkbox"/> Water Shut-Off </div> </div>
Approximate date work will start _____	Date of work completion _____ <small>Report results of Multiple Completions and Recompletions to different reservoirs on WELL COMPLETION OR RECOMPLETION AND LOG form.</small> <small>* Must be accompanied by a cement verification report.</small>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

ANNUAL STATUS REPORT

The above referenced well was drilled and completed as an exploratory well in a heavy oil project. Although substantial oil reserves were found, low oil prices suspended further development and this well was put in a temporarily abandoned status.

13.	Name & Signature:	Title: Engineer	Date: 12/18/92
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(This space for State use only)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
Budget Bureau No. 1004-0135
Expires: March 31, 1993

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
William C. Kirkwood

3. Address and Telephone No.
P. O. Box 3439, Casper, WY 82602 307 265-5178

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
2962' FEL, 1790' FNL
Sec. 20, T31S, R15E

5. Lease Designation and Serial No.
U-21477

6. If Indian, Allottee or Tribe Name
NA

7. If Unit or CA, Agreement Designation
Hatch Canyon

8. Well Name and No.
Monrow 22-20

9. API Well No.
43-017-30088

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State
Garfield Co., UT

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☒ Notice of Intent
☐ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☒ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☐ Other _____
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Kirkwood proposes to abandon this well as follows:

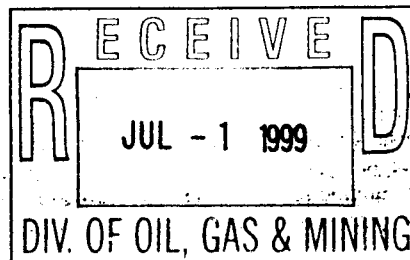
- 1) Circulate well with 9 PPG fresh water bentonite gel
- 2) Set 5 sack surface plug
- 3) Install dry hole marker
- 4) Restore location as necessary

Accepted by the
Utah Division of
Oil, Gas and Mining

Date: 7-13-99

By: ron

COPY SENT TO OPERATOR
Date: 7-20-99
Initials: CHD



14. I hereby certify that the foregoing is true and correct

Signed

Title

Engineer

Date

6/28/99

(This space for Federal or State office use)

Approved by

Title

Date

Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*See instruction on Reverse Side

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Use "APPLICATION FOR PERMIT—" for such proposals

5. Lease Designation and Serial No.

U-21477

6. If Indian, Allottee or Tribe Name

NA

7. If Unit or CA, Agreement Designation

Hatch Canyon Unit

8. Well Name and No.

Monrow 22-20

9. API Well No.

43-017-30088

10. Field and Pool, or Exploratory Area
Wildcat

11. County or Parish, State

Garfield, UT

SUBMIT IN TRIPLICATE

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

William C. Kirkwood

3. Address and Telephone No.

P. O. Box 3439, Casper, WY 82602 307 265-5178

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2962' FEL, 1790' FNL
Sec. 20, T31S, R15E

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☐ Other

☐ Change of Plans

☐ New Construction

☐ Non-Routine Fracturing

☐ Water Shut-Off

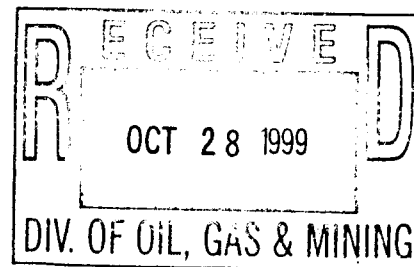
☐ Conversion to Injection

☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

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Please be advised that the above referenced well has been plugged in accordance with the approved plan and is ready for final inspection.



14. I hereby certify that the foregoing is true and correct

Signed

William C. Kirkwood

Title Engineer

Date 10/25/99

(This space for Federal or State office use)

Approved by

Conditions of approval, if any:

Title

Date

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*See Instruction on Reverse Side

KIRKWOOD OIL & GAS

Fax Cover This is a confidential message, intended solely for the person to whom it is addressed. If you receive this message in error, please forward it to the correct person, or mail it back to us. Thank you.

To Carol Daniels
Fax No. 801-359-3940
From Robert Kirkwood
Date/Time 11/4/1999 at 9:22AM
Subject Utah well P & A dates
Pages 1, including this one

Carol:

The P&A dates you requested are as follows;

Monroe 22-20	10/7/99	(TA status)
Magnum 23-8	10/8/99	
Cromwell 33-29	10/9/99	
White Rim 44-31	10/5/99	
Technology 14-36	10/8/99	
Garfield 44-15	8/19/92	
Remington 14-15	8/19/92	
Winfield 21-15	8/18/92	

If you need more information please let me know.

307 265-5178

Fax 307 265-1791